

CLAIMS

What is claimed is:

1. A monitor apparatus including a monitor, and a base to support the monitor, comprising:
 - a first link provided between the monitor and the base;
 - a second link provided between the monitor and the base, and adjacent to the first link;
 - a base bracket, combined to the base, the base bracket having first and second lower supporting parts to rotatably support lower parts of the first and second links, respectively;
 - a connecting bracket rotatably combined to the monitor, the connecting bracket having first and second upper supporters to rotatably support upper parts of the first and second links, respectively;
 - a first spring interposed between the first link and the first lower supporting part, to elastically bias the first link upward with respect to the base; and
 - a second spring interposed between the second link and the second lower supporting part to elastically bias the second link upward with respect to the base, wherein the distance between rotating axes of the first and second lower supporting parts that rotatably support the first and second links, respectively, is greater than the distance between tilting axes of the first and second upper supporters.
2. The monitor apparatus according to claim 1, wherein the connecting bracket further comprises:
 - a monitor coupler spaced from the first and second upper supporters, and rotatably combined to the monitor.
3. The monitor apparatus according to claim 2, further comprising:
 - a link rotation restrictive part to restrict a rotation angle of at least one of the first and second links relative to the base.
4. The monitor apparatus according to claim 3, wherein the link rotation restrictive part further comprises:

a protrusion protruding from the base bracket, to restrict the rotation angle of at least one of the first and second links by making contact with an upper surface of at least one of the first and second links.

5. The monitor apparatus according to claim 1, wherein the first spring further comprises:

a torsion spring having a first end coupled to the first lower supporting part, and a second end coupled to the first link.

6. The monitor apparatus according to claim 5, wherein the second spring further comprises:

a torsion spring having a first end removably coupled to the second lower supporting part, and a second end removably coupled to the second link.

7. The monitor apparatus according to claim 2, wherein the first spring further comprises:

a torsion spring having a first end coupled to the first lower supporting part, and a second end coupled to the first link.

8. The monitor apparatus according to claim 7, wherein the second spring further comprises:

a torsion spring having a first end removably coupled to the second lower supporting part, and a second end removably coupled to the second link.

9. The monitor apparatus according to claim 3, wherein the first spring further comprises:

a torsion spring having a first end coupled to the first lower supporting part, and a second end coupled to the first link.

10. The monitor apparatus according to claim 9, wherein the second spring further comprises:

a torsion spring having a first end removably coupled to the second lower supporting part, and a second end removably coupled to the second link.

11. The monitor apparatus according to claim 4, wherein the first spring further comprises:

a torsion spring having a first end coupled to the first lower supporting part, and a second end coupled to the first link.

12. The monitor apparatus according to claim 11, wherein the second spring further comprises:

a torsion spring, having a first end removably coupled to the second lower supporting part, and a second end removably coupled to the second link.

13. The monitor apparatus according to claim 2, further comprising:

a monitor bracket combined to the monitor, and rotatably combined to the connecting bracket.

14. The monitor apparatus according to claim 13, further comprising:

a monitor tilting restrictive part to restrict a tilting angle of the monitor bracket relative to the connecting bracket.

15. The monitor apparatus according to claim 14, wherein the monitor tilting restrictive part further comprises:

a projection protruding from the monitor coupler towards the connecting supporter of the monitor bracket; and

a stopping part formed by cutting an arc of the connecting supporter provided in the monitor bracket.

16. A monitor apparatus including a monitor and a base, comprising:

a first link extending from the monitor to the base;

a second link extending from the monitor to the base provided adjacent to the first link;

a base bracket combined to the base to support the first and second links, the base bracket comprising:

a first lower supporting part to rotatably support a lower part of the first link, and

a second lower supporting part to rotatably support a lower part of the second link;

a connecting bracket rotatably combined to the monitor, the connecting bracket comprising:

a first upper supporter to rotatably support a lower part of the first link, and

a second upper supporter to rotatably support a lower part of the second link;

a monitor bracket combined to the monitor, and rotatably combined to the connecting bracket;

a first spring interposed between the first link and the base bracket; and

a second spring interposed between the second link and the base bracket.

17. The monitor apparatus according to claim 16, wherein the connecting bracket further comprises:

a monitor coupler provided spaced from the first and second upper supporter, and rotatably combined to the monitor.

18. The monitor apparatus according to claim 17, wherein the monitor bracket further comprises:

a connecting supporter protruding towards the connecting bracket.

19. The monitor apparatus according to claim 18, wherein the connecting supporter further comprises:

a through hole via which the monitor coupler is rotatably combined to the connecting supporter.

20. The monitor apparatus according to claim 19, wherein the through hole has a non-circular shape.

21. The monitor apparatus according to claim 19, wherein the distance between rotating axes of the first and second lower supporting parts that rotatably support the first and second links, respectively, is greater than the distance between tilting axes of the first and second upper supporters.

22. The monitor apparatus according to claim 17, wherein the monitor coupler further comprises:

a protruding part protruding from the connecting bracket, and formed with a shaft holder in which a shaft is accommodated.

23. The monitor apparatus according to claim 17, wherein the monitor coupler is not aligned with the first and second upper supporters.

24. The monitor apparatus according to claim 16, further comprising:

a monitor tilting restrictive part to restrict a tilting angle of the monitor bracket relative to the connecting bracket.

25. The monitor apparatus according to claim 26, wherein the monitor tilting restrictive part further comprises:

a projection protruding from the monitor coupler towards the connecting supporter of the monitor bracket.

26. The monitor apparatus according to claim 16, wherein a predetermined distance is provided between the first and second upper supporters of the connecting bracket.

27. The monitor apparatus according to claim 16, wherein the first link further comprises:

a pair of first lower couplers to rotatably combine with the base bracket; and
a pair of first upper couplers to rotatably combine with the connecting part.

28. The monitor apparatus according to claim 16, wherein the second link further comprises:

a second lower coupler to rotatably combine with the base bracket; and
a second upper coupler to rotatably combine with the connecting part.

29. The monitor apparatus according to claim 16, wherein the sum of resilience due to the first and second springs is approximately equal to a weight of the monitor.

30. The monitor apparatus according to claim 16, further comprising:
a link rotation restrictive part to restrict a rotation angle of at least one of the first and second links relative to the base.

31. The monitor apparatus according to claim 16, wherein height of the monitor is adjusted by rotating the first and second links relative to the base.

32. The monitor apparatus according to claim 20, wherein the first and second upper supporters rotate when the first and second links are rotated relative to the base.

33. The monitor apparatus according to claim 16, wherein the connecting bracket does not rotate relative to the base when the first and second links are rotated.

34. The monitor apparatus according to claim 19, wherein the connecting bracket rotates relative to the first and second links when the first and second links are rotated relative to the base.